

To: Garland, Jay[Garland.Jay@epa.gov]
From: Kling, Timothy
Sent: Mon 12/4/2017 7:45:39 PM
Subject: WaterGen T&E Questions

I'm trying to find a location to place the unit when it arrives. I went on the Water-Gen website and see that there are several sizes, the largest of which is wheel-mounted. Do you know which model will be arriving at the Facility, its weight and whether or not it is wheel-mounted?

Timothy L. Kling

Ex. 4 - CBI

From: Garland, Jay [Garland.Jay@epa.gov]
Sent: Friday, December 01, 2017 11:11 AM
To: Krishnan, Radha; Schupp, Don
Cc: Goodrich, James; Weber, Josh; Meiners, Greg; Hall, John; Szabo, Jeff; Kling, Timothy; Lubbers, Gary
Subject: RE: WaterGen T&E Questions

Some info from Watergen on the electrical connections

From: Krishnan, Radha [mailto:] **Ex. 4 - CBI**
Sent: Thursday, November 30, 2017 1:55 PM
To: Garland, Jay <Garland.Jay@epa.gov>; Schupp, Don **Ex. 4 - CBI**
Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>; Meiners, Greg < **Ex. 4 - CBI** >; Hall, John <Hall.John@epa.gov>; Szabo, Jeff <Szabo.Jeff@epa.gov>; Kling, Timothy < **Ex. 4 - CBI** >; Lubbers, Gary **Ex. 4 - CBI**
Subject: RE: WaterGen T&E Questions

Please put down Tim Kling of APTIM as the point of contact at the T&E Facility for the delivery.

From: Garland, Jay [Garland.Jay@epa.gov]

Sent: Thursday, November 30, 2017 12:21 PM

To: Schupp, Don

Cc: Goodrich, James; Weber, Josh; Krishnan, Radha; Meiners, Greg; Hall, John; Szabo, Jeff

Subject: RE: WaterGen T&E Questions

Have attached some electrical info from WaterGen. They also indicated that they are targeting Dec. 12 for a delivery date. Also asked who they should put down as the contact person for the delivery

From: Schupp, Don **Ex. 4 - CBI**

Sent: Monday, November 27, 2017 2:35 PM

To: Garland, Jay <Garland.Jay@epa.gov>

Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>; radha.krishnan; **Ex. 4 - CBI** Meiners, Greg; **Ex. 4 - CBI** Hall, John

<Hall.John@epa.gov>; Szabo, Jeff <Szabo.Jeff@epa.gov>

Subject: RE: WaterGen T&E Questions

Jay,

Our electrician is out this week, so I don't have an answer for you, yet, on the cable length or connector type. However, we will have to find a place to locate the WaterGen for testing at T&E. This will affect the cable length, obviously. Do you have an approximate size of the unit so we can determine where it will fit?

Don



Don Schupp, P.E.

Ex. 4 - CBI

Ex. 4 - CBI

APTIM

Ex. 4 - CBI

From: Garland, Jay [<mailto:Garland.Jay@epa.gov>]

Sent: Tuesday, November 21, 2017 5:00 PM

To: Schupp, Don **Ex. 4 - CBI**

Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>;

Krishnan, Radha **Ex. 4 - CBI** Meiners, Greg **Ex. 4 - CBI**

Subject: RE: WaterGen T&E Questions

A question from watergen.

Ex. 4 - CBI

Can you provide a response?

From: Schupp, Don **Ex. 4 - CBI**

Sent: Tuesday, November 21, 2017 12:56 PM

To: Garland, Jay <Garland.Jay@epa.gov>

Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>;

[radha.krishnan](#) **Ex. 4 - CBI** Meiners, Greg **Ex. 4 - CBI**

Subject: RE: WaterGen T&E Questions

Jay,

I spoke with our electrician (Gary Lubbers). He said that we have sufficient power at the T&E Facility to power the WaterGen unit. With **Ex. 4 - CBI** we will need approximately **Ex. 4 - CBI** and we can go as high as **Ex. 4 - CBI**. We will need to see if they need either **Ex. 4 - CBI** and the specific connector that they have, but it should be doable.

Also, as we discussed, the T&E highbay is heated in the winter to approximately **Ex. 4 - CBI** but I believe that EPA Facilities controls that temperature. **Ex. 4 - CBI**
Ex. 4 - CBI We have two large environmental chambers in the highbay, but they have not been actively used (temperature or humidity controlled) for about 10 years and need significant work to get in operating condition.

Please let us know if you have any questions, and we look forward to seeing the unit at T&E.

Don



Don Schupp, P.E.

Ex. 4 - CBI

Ex. 4 - CBI

From: Krishnan, Radha

Sent: Tuesday, November 21, 2017 10:51 AM

To: Meiners, Greg; Schupp, Don

Subject: Fwd: WaterGen T&E Questions

Ex. 4 - CBI

Ex. 4 - CBI

Can either of you touch base with Jay Garland in my absence? Thanks.

Sent from my iPhone

Begin forwarded message:

From: "Goodrich, James" <Goodrich.James@epa.gov>

Date: November 21, 2017 at 10:05:51 AM EST

To: "Garland, Jay" <Garland.Jay@epa.gov>

Cc: "Weber, Josh" <Weber.Josh@epa.gov>, "radha.krishnan@epa.gov" <Radha.Krishnan@epa.gov>, "Ernst, Hiba" <Ernst.Hiba@epa.gov>

Subject: WaterGen T&E Questions

Ex. 4 - CBI

Ex. 4 - CBI

Hi Jay,

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For electrical and other HVAC issues I would refer you to Radha. Gary Lubbers on his staff should be able to handle such questions. In regards to humidity control, there is the Environmental Chamber (phytoremediation projects) that might be able to conduct experiments with different humidity levels, although I'm not sure the medium size WaterGen unit would fit through the door.

Jim

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*James A. Goodrich, Ph.D.*

Sr. Science Advisor

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